

Form Approved
OMB No. 2010-0019
Approval Expires 12-31-89

90-890000257

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Comprehensive Assessment Information Rule
REPORTING FORM

When completed, send this form to:

Document Processing Center Office of Toxic Substances, TS-790 U.S. Environmental Protection Agency 401 M Street, SW Washington, DC 20460 Attention: CAIR Reporting Office Date of Receipt:

Document
Control Number:

Docket Number:

### CAIR REPORTING FORM CHECKLIST

### THIS CHECKLIST IS NOT REQUIRED TO BE SUBMITTED, IT IS FOR RESPONDENT'S INTERNAL USE ONLY

This form is intended to gather information on a specific listed substance that is manufactured, imported, or processed at one facility. Respondents must answer only those sections or specific questions required in the CAIR rule.

Respondents may use the same form each time they must report. The original copy of the form received by respondents should be kept on file and used to make copies of the questions required to be answered. These copies may then be circulated to those employees who will complete the form. Respondents must submit only one copy of each question rather than compiling parts of each question from various employees and submitting them together as one question.

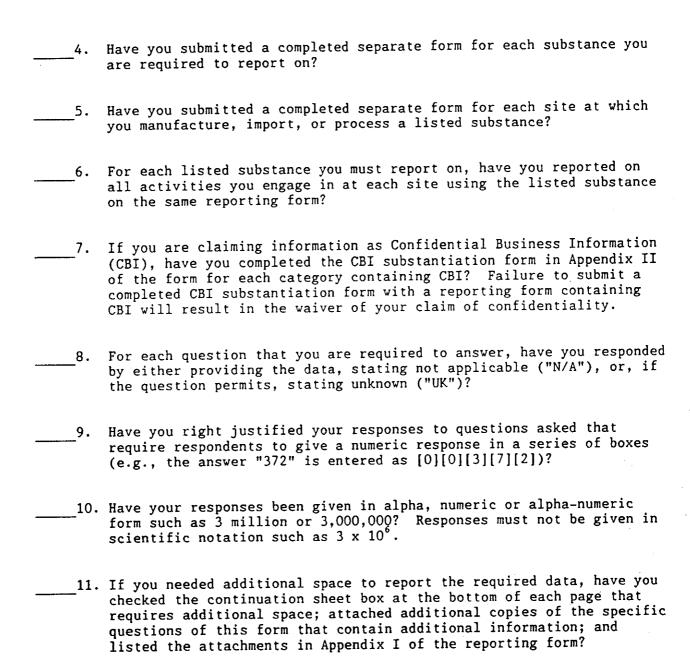
Respondents need only supply information on the form that is "known to or reasonably ascertainable by" the respondent. Refer to the glossary for this definition. All reports with incomplete responses will be assessed as invalid and a Notice of Noncompliance Error Letter and a copy of the question will be sent to you for completion.

Before completing any portion of this form, please read the instruction booklet. The booklet contains general instructions on how to comply with the rule, supplemental instructions and sample answers for many questions, and a glossary containing definitions of key terms. Refer to the glossary whenever an unknown term appears to examine the definition provided.

If you cannot determine your reporting obligations, you should call the TSCA Assistance Office, U.S. EPA, at (202) 554-1404. To obtain additional forms, write to the TSCA Assistance Office (TS-779), ATTN: CAIR Form Request, Office of Toxic Substances, Environmental Protection Agency, Room E-543, 401 M St., SW, Washington, DC 20460, or call at (202) 554-1404.

### BEFORE RETURNING YOUR COMPLETED CAIR FORM PLEASE CHECK THE FOLLOWING:

Have you completed and included Section 1 for each form you are submitting?
 Have you submitted a standard chemical name and Chemical Abstract Service Registry Number for each chemical you are reporting on?
 Does your submitted form include the original certification signatures as required for questions 1.06, 1.07, and 1.08?



	<u></u> .	SECTION 1 GENERAL MANUFACTURER, IMPORTER, AND PROCESSOR INFORMATION
PART	A (	GENERAL REPORTING INFORMATION
1.01	Thi	s Comprehensive Assessment Information Rule (CAIR) Reporting Form has been
CBI	COR	repleted in response to the <u>Federal Register Notice of <math>[1]2</math> <math>[2]2</math> <math>[3]8</math> wear</u>
[_]	a.	If a Chemical Abstracts Service Number (CAS No.) is provided in the Federal
		Register, list the CAS No [_]_]_[ <u>\$</u> ] <u>\$</u> ] <u>\$</u> ]-[ <u>\$</u> ] <u>\$</u> ]-[ <u>\$</u> ]
	ъ.	If a chemical substance CAS No. is not provided in the <u>Federal</u> <u>Register</u> , list either (i) the chemical name, (ii) the mixture name, or (iii) the trade name of the chemical substance as provided in the <u>Federal</u> <u>Register</u> .
		(i) Chemical name as listed in the rule
		(ii) Name of mixture as listed in the rule
		(iii) Trade name as listed in the rule
	c.	If a chemical category is provided in the <u>Federal Register</u> , report the name of the category as listed in the rule, the chemical substance CAS No. you are reporting on which falls under the listed category, and the chemical name of the substance you are reporting on which falls under the listed category.
		Name of category as listed in the rule
		CAS No. of chemical substance [_]_]_]_]_]_]_]_]_]_]_]_[_]
		Name of chemical substance
1.02	Ide	entify your reporting status under CAIR by circling the appropriate response(s).
<u>CBI</u>	Mar	nufacturer
[_]	Imp	oorter
	Pro	ocessor
	X/E	manufacturer reporting for customer who is a processor
	X/I	processor reporting for customer who is a processor

[ ] Mark (X) this box if you attach a continuation sheet.

1.03 <u>CBI</u> [_]	Does the substance you are reporting on have an "x/p" designation associated with it in the above-listed Federal Register Notice?  Yes
1.04 <u>CBI</u>	a. Do you manufacture, import, or process the listed substance and distribute it under a trade name(s) different than that listed in the Federal Register Notice? Circle the appropriate response.  Yes
	b. Check the appropriate box below:  [] You have chosen to notify your customers of their reporting obligations  Provide the trade name(s)  [] You have chosen to report for your customers  [] You have submitted the trade name(s) to EPA one day after the effective date of the rule in the Federal Register Notice under which you are reporting.
1.05 <u>CBI</u>	If you buy a trade name product and are reporting because you were notified of your reporting requirements by your trade name supplier, provide that trade name.  Trade name
1.06 CBI [_]	Certification The person who is responsible for the completion of this form must sign the certification statement below:  "I hereby certify that, to the best of my knowledge and belief, all information entered on this form is complete and accurate."  KEVIN HERRING NAME  X Mentiferror SIGNATURE  SIGNATURE  SIGNATURE  SIGNATURE  SIGNED  TITLE  TITLE  TELEPHONE NO.
[_] N	Mark (X) this box if you attach a continuation sheet.

1.07 <u>CBI</u>	Exemptions From Reporting If you have provided EPA or another Federal agency with the required information on a CAIR Reporting Form for the listed substance within the past 3 years, and this information is current, accurate, and complete for the time period specified in the rule, then sign the certification below. You are required to complete section 1 of this CAIR form and provide any information now required but not previously submitted. Provide a copy of any previous submissions along with your Section 1 submission.				
	"I hereby certify that, to the information which I have not in to EPA within the past 3 years period specified in the rule."	cluded in t	his CAIR Reporting I	Form has been submitted	
	NAME		SIGNATURE	DAME CICNED	
	NATIE		SIGNATURE	DATE SIGNED	
	TITLE	()	TELEPHONE NO.	DATE OF PREVIOUS SUBMISSION	
1.08 <u>CBI</u> []	CBI Certification If you have certify that the following state those confidentiality claims who "My company has taken measures and it will continue to take the been, reasonably ascertainable using legitimate means (other that judicial or quasi-judicial proinformation is not publicly available would cause substantial harm to	ements trut ich you hav to protect ese measure by other pe han discove oceeding) wilable else	hfully and accurated e asserted.  the confidentiality s; the information irsons (other than going based on a showing ithout my company's where; and disclosur	of the information, s not, and has not overnment bodies) by ag of special need in consent; the	
	NAME		SIGNATURE	DATE SIGNED	
	TITLE	()	TELEPHONE NO.		
	lark (X) this box if you attach a	continuati	ion sheet.		

PART	B CORPORATE DATA
1.09	Facility Identification
<u>CBI</u>	Name []]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]
	[]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]
	Dun & Bradstreet Number       [0]0]-[8]2]8]-[7]6]8]5]         EPA ID Number       [0]2]0]7]7]0]5]7]9]         Employer ID Number       7[4]0]3]0]7]7]7]7]5]
	Primary Standard Industrial Classification (SIC) Code       [3]0]6]9]         Other SIC Code       [3]0]5]2]         Other SIC Code       [3]0]6]7]
1.10	Company Headquarters Identification
<u>CBI</u>	Name []]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]
	[U]T] State       [S]4]1]1]9][]]         Dun & Bradstreet Number       [O]O]-[]2]2]-[]3]3]-[]3]5]         Employer ID Number       7[6]0]2]0]7]9]9]5]
	Mark (X) this box if you attach a continuation sheet.
·	, ,

1.11	Parent Company Identification
<u>CBI</u>	Name []]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]
	[_]_]_]_]_]_]_]_]_]]]]]]]]]]]]]]]]]]]]
	$[\underline{\underline{U}}]\underline{\underline{T}}] \qquad [\underline{\underline{Y}}]\underline{\underline{T}}]\underline{\underline{I}}]\underline{\underline{O}}] - [\underline{\underline{O}}]\underline{\underline{D}}]\underline{\underline{O}}]\underline{\underline{O}}]\underline{\underline{O}}]\underline{\underline{O}}]$
	Dun & Bradstreet Number
1.12	Technical Contact
CBI	Name [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
[_]	Title [_]_]_]_]_]_]_]_]_]_]]]]]]]]]]]]]]]]]]
	Address $[ ] ] ] ] ] ] ] ] ] ] [ ] [ ] [ ] [ ] $
	[_]_]_]_]_]_]_]_]_]_]]]]]]]]]]]]]]]]]]
	[ <u>U</u> ] <u>T</u> ] [ <u>3</u> ] <u>4</u> ] <u>T</u> ] <u>4</u> ][]]]]]
	Telephone Number
1.13	This reporting year is from
[_]	Mark (X) this box if you attach a continuation sheet.

1.14	Facility Acquired If you purchased this facility during the reporting year, provide the following information about the seller:
CBI	Name of Seller [_]_]_]_]_]_]_]_]_]_]_]]]]]]]]]]]]]
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]]]]]]]]]]]
	[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_] [_]_]_]_]_]_]_]_]_]_]]_]]]]]
	Employer ID Number
	Date of Sale
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]]]]]]]]]]]]]]
	Telephone Number
1.15	Facility Sold If you sold this facility during the reporting year, provide the following information about the buyer:
<u>CBI</u>	Name of Buyer [_]_]_]_]_]_]_]_]]]]]]]]]]]]]]]]]]]]]]
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]]]]]]]]]]
	[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_] [_]_]_]_]_]_]_]_]]]]]]]]]]]]
	Employer ID Number
	Date of Purchase
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]]]]]]]]]]]]]]]]
	Telephone Number
[_]	Mark (X) this box if you attach a continuation sheet.

1.16	For each classification listed below, state the quantity of the lister was manufactured, imported, or processed at your facility during the	d substance that reporting year.
<u>CBI</u>	Classification	Quantity (kg/yr)
	Manufactured	. <u>N/A</u>
	Imported	N/A
	Processed (include quantity repackaged)	. 2159
	Of that quantity manufactured or imported, report that quantity:	
	In storage at the beginning of the reporting year	N/A
	For on-site use or processing	N/A
	For direct commercial distribution (including export)	. <u>N/A</u>
	In storage at the end of the reporting year	N/A
	Of that quantity processed, report that quantity:	
	In storage at the beginning of the reporting year	
	Processed as a reactant (chemical producer)	
	Processed as a formulation component (mixture producer)	. N/A
	Processed as an article component (article producer)	. 2159
	Repackaged (including export)	N/A
	In storage at the end of the reporting year	0
		·

.17 <u>BI</u>	Mixture If the listed subs or a component of a mixture, chemical. (If the mixture co each component chemical for a	provide the following inform mposition is variable, report	mation for each component
<u>_</u> 1	Component Name	Supplier Name	Average % Composition by Weight (specify precision, e.g., 45% ± 0.5%)
	TOI	UNIROYAL	1,9±0.4%
	URETHANE PREPOLYMER	UNIROYAL	98.1±0.4%
			Total 100%
		•	
		· .	

# BEST COPY AVAILABLE

[_]	Mark (X) this box if you attach a continuation sheet.		
	Batch process	• • • • • • • • • •	3
	Semicontinuous process	• • • • • • • • • • •	2
[_]	Continuous process	• • • • • • • • • • • •	1
2.05 <u>CBI</u>	Specify the manner in which you manufactured the listed substance. C appropriate process types.	ircle all	
	Quantity processed	27//	_ kg
	Quantity imported	NA	_ kg
	Quantity manufactured	NA	_ ke
	Year ending		J <u>7</u> ] ear
	Quantity processed	2650	_ kg
	Quantity imported	N/A	_ k
	Quantity manufactured	N/A	_ kg
	Year ending	[ <u>7]</u> [][夏] [夏 Mo. Y	1 <u>7</u> ear
	Quantity processed	2159	_ k
	Quantity imported	NIA	_ ka
	Quantity manufactured	N/A	_ ka
CBI	Year ending		J <u>X</u> ear
<i>c</i> n r	or processed during the 3 corporate fiscal years preceding the report descending order.	ing year in	

2.06 CBI	Specify the manner in appropriate process ty		he listed substance.	Circle all
[_]	Continuous process	•••••	•••••	1
	Semicontinuous process	•••••	• • • • • • • • • • • • • • • • • • • •	2
	Batch process	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	3
2.07 CBI	State your facility's resubstance. (If you are question.)	name-plate capacity fi e a batch manufacture	or manufacturing or p r or batch processor,	rocessing the listed do not answer this
[_]	Manufacturing capacity			<i>N/A</i> kg/yr
	Processing capacity			<b>N</b> /A kg/yr
2.08 CBI	If you intend to increamanufactured, imported, year, estimate the increase volume.	or processed at any	time after your curr	ent corporate fiscal
[_]		Manufacturing Quantity (kg)	Importing Quantity (kg)	Processing Quantity (kg)
	Amount of increase			
	Amount of decrease			1080
		·		
			•	
[_]	Mark (X) this box if yo	u attach a continuati	on sheet.	The first state of the first state of the st

2.09	listed substanc	argest volume manufacturing or processing proce e, specify the number of days you manufactured g the reporting year. Also specify the average s type was operated. (If only one or two opera	or processed number of h	the listed ours per
CBI			Days/Year	Average Hours/Day
	Process Type #1	(The process type involving the largest quantity of the listed substance.)		
		Manufactured		
		Processed	86	_3
	Process Type #2	(The process type involving the 2nd largest quantity of the listed substance.)		
		Manufactured		
		Processed		
	Process Type #3	(The process type involving the 3rd largest quantity of the listed substance.)		
		Manufactured		
		Processed		
2.10 <u>CBI</u> []	substance that chemical.	um daily inventory and average monthly inventory was stored on-site during the reporting year in	the form of	
	•	inventory		3/ <b>0</b> kg
	Average monthly	inventory		. <b>70</b> к
[]	Mark (X) this bo	ox if you attach a continuation sheet.		

CBI	tured, imported	tance in concentration i, or processed. The see from which the bypro the product (e.g., ca	ource of byproduc ducts, coproducts	ts, coproducts, or impurities a	or impurities are made or
L1	CAS No.	Chemical Name	Byproduct, Coproduct or Impurity	Concentration (%) (specify ± % precision)	Source of By products, Coproducts, or Impurities
	<sup>1</sup> Use the follow	ring codes to designate	byproduct, copro	duct, or impurity	y:
,	<pre>"Use the follow B = Byproduct C = Coproduct I = Impurity</pre>	ring codes to designate	byproduct, copro	oduct, or impurity	<b>y:</b>
,	B = Byproduct C = Coproduct	ring codes to designate			
	B = Byproduct C = Coproduct	ring codes to designate	byproduct, copro		

 $[ \underline{\hspace{1cm}} ]$  Mark (X) this box if you attach a continuation sheet.

a.	b. % of Quantity	c.	<b>d</b> .
Product Types <sup>1</sup>	Manufactured, Imported, or Processed	% of Quantity Used Captively On-Site	Type of End-Users <sup>2</sup>
L	100		<u></u>
<pre>"Use the following code A = Solvent B = Synthetic reactant C = Catalyst/Initiator Sensitizer D = Inhibitor/Stabilize Antioxidant E = Analytical reagent F = Chelator/Coagulant G = Cleanser/Detergent H = Lubricant/Friction agent I = Surfactant/Emulsif J = Flame retardant K = Coating/Binder/Adhe</pre> <pre>"Use the following code</pre>	/Accelerator/ er/Scavenger/ /Sequestrant /Degreaser modifier/Antiwear ier esive and additives	L = Moldable/Castable M = Plasticizer N = Dye/Pigment/Colo O = Photographic/Rep and additives P = Electrodeposition Q = Fuel and fuel add R = Explosive chemics S = Fragrance/Flavor T = Pollution contro U = Functional fluid V = Metal alloy and W = Rheological modi X = Other (specify)	n/Plating chemicals ditives als and additives chemicals l chemicals s and additives additives fier
I = Industrial CM = Commercial	CS = Cons		

2.13 <u>CBI</u> [_]	<pre>import, or process usin corporate fiscal year. import, or process for</pre>	For each use, spece each use as a percenter reporting year. as a percentage of each product type.	ance at any time af cify the quantity ye entage of the total Also list the quan the value listed un	ou expect to manufacture volume of listed ntity of listed substance nder column b., and the
	a.	b.	c.	d.
	Product Types <sup>1</sup>	% of Quantity Manufactured, Imported, or Processed	% of Quantity Used Captively On-Site	Type of End-Users <sup>2</sup>
	L	100		<u> </u>
	<pre>"Use the following code A = Solvent B = Synthetic reactant C = Catalyst/Initiator     Sensitizer D = Inhibitor/Stabiliz     Antioxidant E = Analytical reagent F = Chelator/Coagulant G = Cleanser/Detergent H = Lubricant/Friction     agent I = Surfactant/Emulsif J = Flame retardant K = Coating/Binder/Adh</pre>	: //Accelerator/ eer/Scavenger/ : //Sequestrant :/Degreaser a modifier/Antiwear	L = Moldable/Casta M = Plasticizer N = Dye/Pigment/Co O = Photographic/I and additives P = Electrodeposi Q = Fuel and fuel R = Explosive cher S = Fragrance/Flast T = Pollution con U = Functional flast V = Metal alloy and W = Rheological metal	micals and additives vor chemicals trol chemicals uids and additives nd additives odifier
	<sup>2</sup> Use the following code	es to designate the	type of end-users:	
	<pre>I = Industrial CM = Commercial</pre>	CS = Cons H = Othe	sumer er (specify)	
<u></u>	Mark (X) this box if yo	ou attach a continua	ation sheet.	

a.	b.	c. Average %	d.
Product Type <sup>1</sup>	Final Product's Physical Form <sup>2</sup>	Composition of Listed Substance in Final Product	Type of End-Users <sup>3</sup>
<u></u>	F4	<i>O</i>	<u></u>
_	nt or/Accelerator/ izer/Scavenger/ nt ot/Sequestrant ot/Degreaser on modifier/Antiwear ifier dhesive and additive les to designate the F2 = Cry F3 = Grai F4 = Othe G = Gel	L = Moldable/Castable M = Plasticizer N = Dye/Pigment/Colo O = Photographic/Rep and additives P = Electrodeposition Q = Fuel and fuel add R = Explosive chemics S = Fragrance/Flavor T = Pollution control U = Functional fluids V = Metal alloy and a W = Rheological modis X = Other (specify)  final product's physical stalline solid nules	rant/Ink and additi rographic chemical n/Plating chemicals ditives als and additives chemicals l chemicals s and additives additives fier cal form:
<sup>3</sup> Use the following coo I = Industrial	CS = Cons		
CM = Commercial	= 00		

2.15 CBI		le all applicable modes of transportation used to delive ed substance to off-site customers.		the
[_]	Trucl	C	N/A	1
	Railo	ear		2
	Barge	e, Vessel		3
	Pipe	line		4
	Plane	· }		5
	Other	(specify)		6
2.16 <u>CBI</u> []	or pr	omer Use Estimate the quantity of the listed substance tepared by your customers during the reporting year for ad use listed (i-iv).		
l1	Categ	cory of End Use	•	
	i.	Industrial Products		
		Chemical or mixture		kg/yr
		Article		kg/yr
	ii.	Commercial Products	·	
		Chemical or mixture		kg/yr
		Article		kg/yr
	iii.	Consumer Products		
		Chemical or mixture	·	kg/yr
		Article		kg/yr
	iv.	<u>Other</u>		
		Distribution (excluding export)		kg/yr
		Export	Marcon - Antonio de Mario	kg/yr
		Quantity of substance consumed as reactant		kg/yr
		Unknown customer uses	· · · · · · · · · · · · · · · · · · ·	kg/yr
[-]	Mark	(X) this box if you attach a continuation sheet.		<del></del>

SECTION	3	PROCESSOR	PAU	MATERIAL	IDENTIFICATION
SECTION		LUCESSOR	KAW	MAILKIAL	IDENIIFICATION

PART	A GENERAL DATA		
3.01 <u>CBI</u>	Specify the quantity purchased and the average price for each major source of supply listed. Product trad The average price is the market value of the product substance.	es are treated a	s purchases.
	Source of Supply	Quantity (kg)	Average Price (\$/kg)
	The listed substance was manufactured on-site.		
	The listed substance was transferred from a different company site.		
	The listed substance was purchased directly from a manufacturer or importer.	2159	6.36
	The listed substance was purchased from a distributor or repackager.		·
	The listed substance was purchased from a mixture producer.		
3.02 <u>CBI</u> []	Circle all applicable modes of transportation used to your facility.  Truck		
[_]	Mark (X) this box if you attach a continuation sheet.		

3.03 CBI	а.	Circle all applicable containers used to transport the listed substance to your facility.
[_]		Bags 1
		Boxes 2
		Free standing tank cylinders 3
		Tank rail cars 4
		Hopper cars 5
		Tank trucks 6
		Hopper trucks 7
		Drums
		Pipeline 9
		Other (specify) 5 GAL CANS
	b.	If the listed substance is transported in pressurized tank cylinders, tank rail cars, or tank trucks, state the pressure of the tanks.
		Tank cylinders mmHg
•		Tank rail cars mmHg
		Tank trucks mmHg
		,
[_]	Marl	c (X) this box if you attach a continuation sheet.

## **BEST COPY AVAILABLE**

of the mixture, the r CBI average percent compo	name of its supplier(s	form of a mixture, list the ) or manufacturer(s), an est he listed substance in the morting year.	imate of the
Trade Name	Supplier or Manufacturer	Average % Composition by Weight (specify ± % precision)	Amount Processed (kg/yr)
VIBRATHANE	UNIROYAL	1.9 ± 0.04	2159
,			
		· .	

3.05 CBI	State the quantity of the reporting year in the form the percent composition, by	listed substance used as a roof a class I chemical, class weight, of the listed subs	ss II chemical, or polymer, and
·		Quantity Used (kg/yr)	<pre>% Composition by Weight of Listed Sub- stance in Raw Material (specify ± % precision)</pre>
	Class I chemical	N/A	
	Class II chemical	2159	1.9±0.4
	Polymer		

CECETON	,	PHYSTCAL/CHEMT	CAT	DDADEDWIEC
CECTION	/،	PHYSICAL/CHEMI	TAI.	PROPERTIES

~		·			
Gener	rol	Inct	ייוויי	תחוד	•
Gener	La.	T112 (		CIOII	

If you are reporting on a mixture as defined in the glossary, reply to questions in Section 4 that are inappropriate to mixtures by stating "NA -- mixture."

For questions 4.06-4.15, if you possess any hazard warning statement, label, MSDS, or other notice that addresses the information requested, you may submit a copy or reasonable facsimile in lieu of answering those questions which it addresses.

01	Specify the percent pur substance as it is manu substance in the final import the substance, of	ufactured, imported, o product form for manu	or processed. Measure ifacturing activities,	the purity of the at the time you
_1		Manufacture	Import	Process
<b>†</b>	Technical grade #1	% purity	% purity	<u> </u>
	Technical grade #2	% purity	% purity	
•	Technical grade #3	% purity	% purity	<u> </u>
02		ity of listed substar	ace manufactured, impor	ted or processed.
02	<sup>1</sup> Major = Greatest quant	ity of listed substar ly updated Material S y formulation contain ped and an MSDS devel	ace manufactured, impor Safety Data Sheet (MSDS ling the listed substan-	ted or processed.  ) for the listed ce. If you possesurce, submit your
02	1 Major = Greatest quant Submit your most recent substance, and for ever an MSDS that you develo version. Indicate whet	ity of listed substar ly updated Material S ry formulation contain pped and an MSDS devel ther at least one MSDS	Safety Data Sheet (MSDS ing the listed substantoped by a different so has been submitted by	ted or processed.  ) for the listed ce. If you posses urce, submit your circling the
02	1 Major = Greatest quant Submit your most recent substance, and for ever an MSDS that you develor version. Indicate whet appropriate response.	ly updated Material Sty formulation contain pped and an MSDS developed at least one MSDS	Safety Data Sheet (MSDS sing the listed substant oped by a different so has been submitted by	ted or processed.  ) for the listed ce. If you posses urce, submit your circling the
02	1 Major = Greatest quant Submit your most recent substance, and for ever an MSDS that you develo version. Indicate whet appropriate response. Yes	ity of listed substar ly updated Material S ry formulation contain ped and an MSDS devel ther at least one MSDS	Safety Data Sheet (MSDS sing the listed substant oped by a different so has been submitted by	ted or processed.  ) for the listed ce. If you posses urce, submit your circling the
02	1 Major = Greatest quant Submit your most recent substance, and for ever an MSDS that you develor version. Indicate whet appropriate response.  Yes	ity of listed substantly updated Material Straight formulation contains ped and an MSDS developed and least one MSDS	Safety Data Sheet (MSDS sing the listed substant oped by a different so has been submitted by	ted or processed.  ) for the listed ce. If you posses urce, submit your circling the

4.03	Submit a copy or reasonable that is provided to your cus formulation containing the l been submitted by circling t	tomers/users re isted substance	garding the . Indicate	listed subs	tance or any	·
	Yes	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • •			1
	No		•••••••	••••••	•••••	(2
4.04 <u>CBI</u>	For each activity that uses corresponding to each physical states for the time you import or begin manufacturing, storage, disperinal state of the product.	<pre>al state of the importing and   to process the</pre>	listed sub processing listed sub	stance durin activities a stance. Phy	g the activit re determined sical states	y lat for
			Phy	sical State		
	Antivity	Calid	C1	1 2 2 3	Liquified	
	Activity	Solid	Slurry	Liquid	Gas	Gas
	Manufacture	1	2	3	4	5
	Import	1	2	3	4	5
	Process	1	2	<b>3</b>	4	5

$[ \underline{} ]$ Mark (X)	this box if	you attach a	continuation	sheet.
-----------------------------	-------------	--------------	--------------	--------

Store

Dispose

Transport

<u>CBI</u>	following percentage particles importing listed su	Size If the list g activities, indicage distribution of the base of the bas	ite for each ap the listed subs imeter. Measur divities at the the physical st	oplicable stance by se the phe time you ate and	e physical y activity nysical st ou import particle	l state  Do r  ate and or begi  sizes f	the size not include particle not proceed to the pr	and the le sizes for the contract the contra
	Physical State		Manufacture	Import	Process	Store	Dispose	Transpor
	Dust	<1 micron						
		1 to <5 microns					<u> </u>	
		5 to <10 microns				***************************************		·
	Powder	<1 micron						
		1 to <5 microns						
		5 to <10 microns						
	Fiber	<1 micron						
		1 to <5 microns						
		5 to <10 microns						
	Aerosol	<b>21</b> ml man					,	•
	Aerosor	<1 micron					-	
		1 to <5 microns	····					
		5 to <10 microns						

	SECTION	5	ENVIRONMENTAL	FATE
--	---------	---	---------------	------

PART	A I	RATE CONSTANTS AND TRANSFORMATION PRODUCTS		
5.01	Inc	dicate the rate constants for the following tra	ansformation processes.	
	a.	Photolysis:		
		Absorption spectrum coefficient (peak)	UK (1/M cm) at	nm
		Reaction quantum yield, &	UKat	nm
		Direct photolysis rate constant, $k_p$ , at	UK 1/hr	latitude
	ъ.	Oxidation constants at 25°C:		
		For <sup>1</sup> 0 <sub>2</sub> (singlet oxygen), k <sub>ox</sub>	UK	1/M h
		For RO <sub>2</sub> (peroxy radical), k <sub>ox</sub>		
	c.	Five-day biochemical oxygen demand, BOD <sub>5</sub>	UK	mg/l
	d.	Biotransformation rate constant:		•
		For bacterial transformation in water, $k_b \dots$	UK	1/hr
		Specify culture	UK	· · · · · · · · · · · · · · · · · · ·
	e.	Hydrolysis rate constants:		
		For base-promoted process, k <sub>B</sub>	UK	1/M hr
		For acid-promoted process, k <sub>A</sub>	UK	1/M hr
		For neutral process, $k_N$	UK	1/hr
	f.	Chemical reduction rate (specify conditions)_	UK	
	g.	Other (such as spontaneous degradation)	UK	<u> </u>

on sheet.			
-----------	--	--	--

5.02	a.	Specify the half-life of the	e listed subst	ance in the followi	ng media.	
		<u>Media</u>		Half-life (speci	fy units)	
		Groundwater		UK		
		Atmosphere		Ut	<u> </u>	
		Surface water		$\mathcal{U}$	Κ	
		Soil		U	K	
	ь.	Identify the listed substance life greater than 24 hours.	e's known tra	nsformation product	s that have a half-	
		CAS No.	Name	Half-life (specify units)	Media	
		UK			in	
				· .	in	
					in	
					in	
5.03		cify the octanol-water partit		<u> </u>	UK at 25°0	
5.04	Spe	cify the soil-water partition	coefficient,	K <sub>d</sub>	U ( at 25°C	
	Soi	l type				
5.05	Spe coe	cify the organic carbon-water fficient, K <sub>oc</sub>	partition		UK at 25°C	
5.06	Spe	cify the Henry's Law Constant	, н		JK atm-m³/mole	
[_]	Mar	k (X) this box if you attach	a continuation	n sheet.		

Bioconcentration Factor	determined, and the type of test used in deriving entration Factor Species			U/					
 <sup>1</sup> Use the following codes to	o designate	 e the type o	of test	:					
F = Flowthrough S = Static									
			· .			•			

6.04 <u>CBI</u>	For each market listed below, state the listed substance sold or transferm		
[_]		Quantity Sold or	Total Sales
	Market	Transferred (kg/yr)	Value (\$/yr)
	Retail sales	$\mathcal{N}/A$	
	Distribution Wholesalers	•	
	Distribution Retailers		
	Intra-company transfer		
	Repackagers		-
	Mixture producers		·
	Article producers		
	Other chemical manufacturers or processors		
	Exporters		<u> </u>
	Other (specify)		
6.05 CBI	Substitutes List all known commerci for the listed substance and state the feasible substitute is one which is ed in your current operation, and which reperformance in its end uses.	cost of each substitutionomically and techno	ute. A commercially logically feasible to use
[_]	Substitute		Cost (\$/kg)
	UK	· .	
	<b>44</b>		
[_]	Mark (X) this box if you attach a cont	inuation sheet.	

### SECTION 7 MANUFACTURING AND PROCESSING INFORMATION

#### General Instructions:

For questions 7.04-7.06, provide a separate response for each process block flow diagram provided in questions 7.01, 7.02, and 7.03. Identify the process type from which the information is extracted.

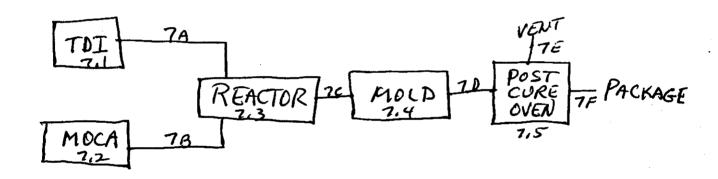
### PART A MANUFACTURING AND PROCESSING PROCESS TYPE DESCRIPTION

7.01 In accordance with the instructions, provide a process block flow diagram showing the major (greatest volume) process type involving the listed substance.

CBI

URETHANE

Process type ...... MIXING AND MOLDING



[ ] Mark (X) this box if you attach a continuation sheet.

7.03	In accordance with the instructions, provide a process block flow diagram showing a process emission streams and emission points that contain the listed substance and which, if combined, would total at least 90 percent of all facility emissions if no treated before emission into the environment. If all such emissions are released from one process type, provide a process block flow diagram using the instructions for question 7.01. If all such emissions are released from more than one process type, provide a process block flow diagram showing each process type as a separate block.					
CBI		. 1				
[_]	Process type	N/A				
[_]	Mark (X) this box if you attach a cont	inuation sheet.				

] Process type				
Unit			Operating	
Operation ID Number	Typical Equipment <u>Type</u>	Operating Temperature Range (°C)	Pressure Range (mm Hg)	Vesse Composi
7.1	TANK	AMBIENT	ATMOSPHERIC	STEE
7,2	TANK	AMBIENT	Atmospheric	STE
7.3	REACTOR MIXING VESSEL	AMBIENT	ATTHOSPHERIC	STE
7.4	MOLD	<u> 100°C</u>	<u>ATMOS PHE</u> RIC	STEEL
7.5	OVEN	138°C	ATMOSPHERK	STE
<del> </del>		***	<del></del>	
				•
	.,			
***				

CBI	question and	complete it separately for each	process type.	e, photocopy this
[_]	Process type	URETHANE M	IXING AND MOL	DING
	Process Stream ID Code	Process Stream _Description	Physical State <sup>1</sup>	Stream Flow (kg/yr)
	7A	REACTANT FEED	OL	2159
	<u>78</u>	REACTANT FEED	OL	330
	7e_	REACTED POLYMER	<b>_ 5</b>	2489
	<u> 7</u> D	PRODUCT	50	2489
	7E	WATER VAPOR	G C	~/
	7F	FINAL PRODUCT	<u> 30</u>	2489
	<sup>1</sup> Use the follo	wing codes to designate the phys	sical state for each pro	cess stream:
	GC = Gas (con	densible at ambient temperature	and pressure)	
	SO = Solid	ondensible at ambient temperatur	re and pressure)	•
	SY = Sludge o AL = Aqueous	liquid		
	OL = Organic IL = Immiscib	liquid le liquid (specify phases, e.g.,	90% water, 10% toluene	)

7.06 CBI	If a proceathis quest	ze each process stream id ss block flow diagram is ion and complete it separ ns for further explanatio	provided for mor ately for each p	re than one proprocess type.	cess type, photocop
[_]	Process ty	pe		·	
	a.	b.	c.	d.	е.
	Process Stream ID Code	Known Compounds	Concen- trations <sup>2,3</sup> (% or ppm)	Other Expected Compounds	Estimated Concentrations (% or ppm)
		TDI	1.9%	UK	
		PRE POLYMER	98.190	UK	
			<u></u>		
	_7B	MOCA	2,0%	UK	
		PREPOLYMER	98,00%	UK	
	<u>7c</u>	URETHANE POLYME	R 100%		
			-		
7.06	continued b	pelow			
	70	URETHANE POLY	MER 100	TO UK	UK
	7 <i>E</i>	WATER VAPOR	URE	THANE	< 1 PPM
	7F	URETHANE PRODU	ICT 10	070 N	OWE
[_]	Mark (X) th	ais box if you attach a co	ontinuation shee	t.	

7.00 ICUILLINGE	7	.06	(continued	١
-----------------	---	-----	------------	---

<sup>1</sup>For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column b. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

Additive Package Number	Components of Additive Package	Concentration (% or ppm)
1	M/A	
2		
3		
		<u> </u>
4		
5		
<sup>2</sup> Use the following	codes to designate how the concentration	on was determined:
A = Analytical res E = Engineering ju	ult dgement/calculation	
<sup>3</sup> Use the following	codes to designate how the concentration	on was measured:
V = Volume W = Weight		

SECTION 8 RESIDUAL TREATMENT GENERATION, CHARACTERIZATION, TRANSPORTATION, AND MANAGEMENT

### General Instructions:

For questions 8.04-8.06, provide a separate response for each residual treatment block flow diagram provided in question 8.01, 8.02 or 8.03. Identify the process type from which the information is extracted.

For questions 8.05-8.33, the Stream Identification Codes are those process streams listed in either the Section 7 or Section 8 block flow diagrams which contain residuals for each applicable waste management method.

For questions 8.07-8.33, if residuals are combined before they are handled, list those Stream Identification Codes on the same line.

Questions 8.09-8.33 refer to the waste management activities involving the residuals identified in either the Section 7 or Section 8 block flow diagrams. Not all Stream Identification Codes used in the sample answers (e.g., for the incinerator questions) have corresponding process streams identified in the block flow diagram(s). These Stream Identification codes are for illustrative purposes only.

For questions 8.11-8.33, if you have provided the information requested on one of the EPA Office of Solid Waste surveys listed below within the three years prior to your reporting year, you may submit a copy or reasonable facsimile in lieu of answering those questions which the survey addresses. The applicable surveys are: (1) Hazardous Waste Treatment, Storage, Disposal, and Recycling Survey; (2) Hazardous Waste Generator Survey; or (3) Subtitle D Industrial Facility Mail Survey.

	Mark	(X)	this	box	if	you	attach	а	continuation	sheet.
--	------	-----	------	-----	----	-----	--------	---	--------------	--------

8.01 CBI	In accordance with the which describes the tr	instructions, eatment process	provide a s used for	residual residuals	treatment identifi	block ed in (	flow diagraquestion 7.0
[_]	Process type		N/A				
						-	•
							•
-							
					·		
			<i>!</i>				
			}		·		

<u>3I</u> —,	type. (Refer to the instructions for further explanation and an example.)										
_]	Process	type	• • •	7 7 7							
	а.	b.	c.	d. e.		f.	g.				
	Stream ID Code	Type of Hazardous Waste	Physical State of Residual <sup>2</sup>	Known Compounds <sup>3</sup>	Concentra- tions (% or ppm) <sup>4</sup> ,5,6	Other Expected Compounds	Estimate Concen- trations (% or ppm				

# \*\*B.05 (continued) \*\*Use the following codes to designate the type of hazardous waste: I = Ignitable C = Corrosive R = Reactive E = EP toxic T = Toxic H = Acutely hazardous \*\*Use the following codes to designate the physical state of the residual: GC = Gas (condensible at ambient temperature and pressure) GU = Gas (uncondensible at ambient temperature and pressure) SO = Solid SY = Sludge or slurry AL = Aqueous liquid OL = Organic liquid IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene)

### 8.05 continued below

[\_\_] Mark (X) this box if you attach a continuation sheet.

Ω (	05 (	'conti	inued)
0.1	ו כט	conti	.nuea )

8.05

<sup>3</sup>For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column d. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

Additive Package Number	Components of Additive Package	Concentrations (% or ppm)
1		
2		<del></del>
3		<del>.</del>
4		
5		· .
	***	· · · · · · · · · · · · · · · · · · ·
	·	****
<sup>1</sup> Use the following codes to	designate how the concentrat	ion was determined:
A = Analytical result	designate non the concentrate	1000 was determined.
E = Engineering judgement/	calculation	
continued below		·
fark (X) this box if you at	tach a continuation sheet.	

<sup>5</sup> Use the	following codes to designate how the concentration was meas	ured:								
<pre>V = Volume W = Weight</pre>										
<sup>6</sup> Specify below.	the analytical test methods used and their detection limits Assign a code to each test method used and list those codes	in the table in column e.								
Code	Method	Detection Limi ( <u>+</u> ug/l)								
1	<u></u>									
2										
3										
4										
6										
		ž.								

P	rocess	type	•••	N/	7				
	a. tream ID Code	b. Waste Description Code	Management Method Code	d. Residual Quantities (kg/yr)	e. Managem of Residua On-Site Of	1 (%)	f. Costs for Off-Site Management (per kg)	g. Changes Manageme Methods	
_									
							:		
*******	<del> </del>								
_									
1,			dad in Pubi						
					designate the				

EXHIBIT 8-1. (Refers to question 8.06(b))

### WASTE DESCRIPTION CODES

These waste description codes were developed specifically for this survey to supplement the descriptions listed with the RCRA and other waste codes. (These waste description codes are not regulatory definitions.)

### WASTE DESCRIPTION CODES FOR HAZARDOUS WASTE DESCRIBED BY A SINGLE RCRA F, K, P, OR U WASTE CODE

A01	Spent	solvent	(F001-	F005.	K086)
-----	-------	---------	--------	-------	-------

A02 Other organic liquid (F001-F005, K086)

A03 Still bottom (F001-F005, K086)

A04 Other organic sludge (F001-F005, K086)

A05 Wastewater or aqueous mixture

A06 Contaminated soil or cleanup residue

A07 Other F or K waste, exactly as described

A08 Concentrated off-spec or discarded product

A09 Empty containers

""Exactly as described" means that the waste matches the description of the RCRA waste code.

A10 Incinerator ash

A11 Solidified treatment residue

A12 Other treatment residue (specify in "Facility Notes")

Other untreated waste (specify in "Facility Notes")

INORGANI	C LIQUIDS-	-Waste th	at is prima	rily

inorganic and highly fluid (e.g., aqueous), with low suspended inorganic solids and low organic content

801 Aqueous waste with low solvents

802 Aqueous waste with low other toxic organics

803 Spent acid with metals

804 Spent acid without metals

805 Acidic aqueous waste

806 Caustic solution with metals but no cvanides

807 Caustic solution with metals and cyanides B08 Caustic solution with cyanides but no

metais 809 Spent caustic

**B10** Caustic aqueous waste

B11 Aqueous waste with reactive sulfides

B12 Aqueous waste with other reactives (e.g., explosives)

B13 Other aqueous waste with high dissolved solids

B14. Other aqueous waste with low dissolved solids

B15 Scrubber water

B16 Leachaie

B17 Waste liquid mercury

B18 Other inorganic liquid (specify in "Facility Notes")

INORGANIC SLUDGES—Waste that is primarily inorganic, with moderate-to-high water content and low organic content; pumpable.

819 Lime sludge without metals

B20 Lime sludge with metals/metal hydroxide sludge

Wastewater treatment sludge with toxic **B21** OFTIANICS

822 Other wastewater treatment sludge

B23 Untreated plating sludge without cyanides

B24 Untreated plating sludge with cyanides

B25 Other sludge with cyanides 826 Sludge with reactive sulfides

B27 Sludge with other reactives

B28 Degreasing sludge with metal scale or filings

829 Air pollution control device sludge (e.g., fly ash, wet scrubber sludge)

830 Sediment or lagoon dragout contaminated with organics

B31 Sediment or lagoon dragout contaminated with inorganics only

**B32** Drilling mud

**B33** Asbestos slurry or sludge

834 Chloride or other brine sludge

Other inorganic sludge (specify in 'Facility Notes'')

INORGANIC SOLIDS-Waste that is primarily inorganic and solid, with low organic content and low-to-moderate water content; not pumpable

**B36** Soil contaminated with organics

**B37** Soil contaminated with inorganics only

838 Ash, slag, or other residue from incineration of wastes

Other "dry" ash, slag, or thermal **B39** residue

B40 "Dry" lime or metal hydroxide solids chemically "fixed"

**B41** "Dry" lime or metal hydroxide solids not "fixed"

B42 Metal scale, filings, or scrap

843 Empty or crushed metal drums or containers 844

Battenes or battery parts, casings, cores **B45** 

Spent solid filters or adsorbents **R46** 

Asbestos solids and debns 847

Metal-cyanide salts/chemicals **R48** Reactive cyanide salts/chemicals

849 Reactive sulfide salts/chemicals

**B50** Other reactive salts/chemicals

**B**51 Other metal saits/chemicals **B52** 

Other waste inorganic chemicals **B53** Lab packs of old chemicals only

854 Lab packs of debris only

**B**55 Mixed lab packs

856 Other inorganic solids (specify in 'Facility Notes")

INORGANIC GASES—Waste that is primarily inorganic with a low organic content and is a gas at atmospheric pressure.

857 Inorganic gases

ORGANIC LIQUIDS-Waste that is primarily organic and is highly fluid, with low inorganic solids content and low-to-moderate water

858 Concentrated solvent-water solution Halogenated (e.g., chlorinated) solvent

B60 Nonhalogenated solvent B61 Halogenated/nonhalogenated solvent mixture

B62 Oil-water emulsion or mixture

B63 Waste oil

864 Concentrated aqueous solution of other

**R65** Concentrated phenolics

866 Organic paint, ink, lacquer, or varnish

**B67** Adhesives or expoxies

B68 Paint thinner or petroleum distillates

869 Reactive or polymerizable organic liquid

Other organic liquid (specify in "Facility 870

ORGANIC SLUDGES—Waste that is primarily organic, with low-to-moderate inorganic solids content and water content; pumpable.

Still bottoms of halogenated (e.g., chlorinated) solvents or other organic liquids

**B72** Still bottoms of nonhalogenated solvents or other organic liquids

873 Oily sludge

**B74** Organic paint or ink sludge

**B75** Reactive or polymerizable organics **B76** 

Resins, tars, or tarry sludge

877 Biological treatment sludge

678 Sewage or other untreated biological sludae

B79 Other organic sludge (specify in "Facility Notes")

ORGANIC SOLIDS-Waste that is primarily organic and solid, with low-to-moderate inorganic content and water content; not pumpable.

Halogenated pesticide solid

Nonhalogenated pesticide solid 881

Solid resins or polymenzed organics

883 Spent carbon

**B84** Reactive organic solid

**B85** Empty fiber or plastic containers

**B86** Lab packs of old chemicals only

887 Lab packs of debris only

888 Mixed lab packs 889

Other halogenated organic solid Other nonhalogenated organic solid

ORGANIC GASES—Waste that is primarily organic with low-to-moderate inorganic content

and is a gas at atmospheric pressure. B91 Organic gases

# BEST COPY AVAILABLE

## EXHIBIT 8-2. (Refers to question 8.06(c))

### MANAGEMENT METHODS

MANAGEMEN	I METHODS
M1 = Discharge to publicly owned	Possyomy of solvents and liquid summit-
wastewater treatment works	Recovery of solvents and liquid organics for reuse
M2 = Discharge to surface water under	1SR Fractionation
NPDES	2SR Batch still distillation
M3 = Discharge to off-site, privately	3SR Solvent extraction
owned wastewater treatment works	4SR Thin-film evaporation
.M4 = Scrubber: a) caustic; b) water;	5SR Filtration
c) other	6SR Phase separation
M5 = Vent to: a) atmosphere; b) flare;	7SR Dessication
c) other (specify)	8SR Other solvent recovery
M6 = Other (specify)	ook other sortene recovery
	Recovery of metals
TREATMENT AND RECYCLING	1MR Activated carbon (for metals
	recovery)
Incineration/thermal treatment	2MR Electrodialysis (for metals
1I Liquid injection	recovery)
2I Rotary or rocking kiln	3MR Electrolytic metal recovery
3I Rotary kiln with a liquid injection	4MR Ion exchange (for metals recovery)
unit	5MR Reverse osmosis (for metals
4I Two stage	recovery)
5I Fixed hearth	6MR Solvent extraction (for metals
6I Multiple hearth	recovery)
7I Fluidized bed	7MR Ultrafiltration (for metals
8I Infrared	recovery)
9I Fume/vapor	8MR Other metals recovery
10I Pyrolytic destructor	onk other metals recovery
11I Other incineration/thermal	Wastewater Treatment
treatment	After each wastewater treatment type
ca da cincir c	listed below (1WT - 66WT) specify
Reuse as fuel	
Reuse as fuel	a) tank; or b) surface impoundment
1RF Cement kiln	
1RF Cement kiln 2RF Aggregate kiln	<ul><li>a) tank; or b) surface impoundment (i.e., 63WTa)</li></ul>
1RF Cement kiln 2RF Aggregate kiln 3RF Asphalt kiln	<ul><li>a) tank; or b) surface impoundment (i.e., 63WTa)</li><li>Equalization</li></ul>
1RF Cement kiln 2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln	<ul><li>a) tank; or b) surface impoundment (i.e., 63WTa)</li></ul>
1RF Cement kiln 2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace	a) tank; or b) surface impoundment (i.e., 63WTa)  Equalization  1WT Equalization
1RF Cement kiln 2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace	<ul><li>a) tank; or b) surface impoundment (i.e., 63WTa)</li><li>Equalization 1WT Equalization</li><li>Cyanide oxidation</li></ul>
1RF Cement kiln 2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining	a) tank; or b) surface impoundment (i.e., 63WTa)  Equalization  1WT Equalization  Cyanide oxidation  2WT Alkaline chlorination
1RF Cement kiln 2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace	a) tank; or b) surface impoundment (i.e., 63WTa)  Equalization  LVT Equalization  Cyanide oxidation  2VT Alkaline chlorination  3VT Ozone
1RF Cement kiln 2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace 8RF Coke oven	a) tank; or b) surface impoundment (i.e., 63WTa)  Equalization  1WT Equalization  Cyanide oxidation  2WT Alkaline chlorination  3WT Ozone  4WT Electrochemical
1RF Cement kiln 2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace 8RF Coke oven 9RF Other industrial furnace	a) tank; or b) surface impoundment (i.e., 63WTa)  Equalization  1WT Equalization  Cyanide oxidation  2WT Alkaline chlorination  3WT Ozone
1RF Cement kiln 2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace 8RF Coke oven 9RF Other industrial furnace 10RF Industrial boiler	a) tank; or b) surface impoundment (i.e., 63WTa)  Equalization  LVT Equalization  Cyanide oxidation  LVT Alkaline chlorination  LVT Ozone  LVT Electrochemical  LVT Other cyanide oxidation
1RF Cement kiln 2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace 8RF Coke oven 9RF Other industrial furnace 10RF Industrial boiler 11RF Utility boiler	a) tank; or b) surface impoundment (i.e., 63WTa)  Equalization  LVT Equalization  Cyanide oxidation  2VT Alkaline chlorination  3VT Ozone  4VT Electrochemical  5VT Other cyanide oxidation  General oxidation (including
1RF Cement kiln 2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace 8RF Coke oven 9RF Other industrial furnace 10RF Industrial boiler 11RF Utility boiler 12RF Process heater	a) tank; or b) surface impoundment (i.e., 63WTa)  Equalization  LVT Equalization  Cyanide oxidation  LVT Alkaline chlorination  LVT Ozone  LVT Electrochemical  LVT Other cyanide oxidation  General oxidation (including disinfection)
1RF Cement kiln 2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace 8RF Coke oven 9RF Other industrial furnace 10RF Industrial boiler 11RF Utility boiler	a) tank; or b) surface impoundment (i.e., 63WTa)  Equalization  LVT Equalization  Cyanide oxidation  2VT Alkaline chlorination  3VT Ozone  4VT Electrochemical  5VT Other cyanide oxidation  General oxidation (including
1RF Cement kiln 2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace 8RF Coke oven 9RF Other industrial furnace 1ORF Industrial boiler 11RF Utility boiler 12RF Process heater 13RF Other reuse as fuel unit	a) tank; or b) surface impoundment (i.e., 63WTa)  Equalization  LVT Equalization  Cyanide oxidation  2VT Alkaline chlorination  3VT Ozone  4VT Electrochemical  5VT Other cyanide oxidation  General oxidation (including disinfection)  6VT Chlorination  7VT Ozonation
1RF Cement kiln 2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace 8RF Coke oven 9RF Other industrial furnace 10RF Industrial boiler 11RF Utility boiler 12RF Process heater 13RF Other reuse as fuel unit Fuel Blending	a) tank; or b) surface impoundment (i.e., 63WTa)  Equalization  LVT Equalization  Cyanide oxidation  2VT Alkaline chlorination  3VT Ozone  4VT Electrochemical  5VT Other cyanide oxidation  General oxidation (including disinfection)  6VT Chlorination  7VT Ozonation  8VT UV radiation
1RF Cement kiln 2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace 8RF Coke oven 9RF Other industrial furnace 1ORF Industrial boiler 11RF Utility boiler 12RF Process heater 13RF Other reuse as fuel unit	a) tank; or b) surface impoundment (i.e., 63WTa)  Equalization  LVT Equalization  Cyanide oxidation  2VT Alkaline chlorination  3VT Ozone  4VT Electrochemical  5VT Other cyanide oxidation  General oxidation (including disinfection)  6VT Chlorination  7VT Ozonation
1RF Cement kiln 2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace 8RF Coke oven 9RF Other industrial furnace 10RF Industrial boiler 11RF Utility boiler 12RF Process heater 13RF Other reuse as fuel unit  Fuel Blending 1FB Fuel blending	a) tank; or b) surface impoundment (i.e., 63WTa)  Equalization  LVT Equalization  Cyanide oxidation  LVT Alkaline chlorination  SVT Ozone  4WT Electrochemical  SVT Other cyanide oxidation  General oxidation (including disinfection)  6WT Chlorination  TVT Ozonation  SVT UV radiation  9WT Other general oxidation
1RF Cement kiln 2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace 8RF Coke oven 9RF Other industrial furnace 10RF Industrial boiler 11RF Utility boiler 12RF Process heater 13RF Other reuse as fuel unit Fuel Blending	a) tank; or b) surface impoundment (i.e., 63WTa)  Equalization  LVT Equalization  Cyanide oxidation  LVT Alkaline chlorination  SVT Ozone  4WT Electrochemical  SVT Other cyanide oxidation  General oxidation (including disinfection)  6WT Chlorination  TVT Ozonation  SVT UV radiation  9WT Other general oxidation
1RF Cement kiln 2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace 8RF Coke oven 9RF Other industrial furnace 10RF Industrial boiler 11RF Utility boiler 12RF Process heater 13RF Other reuse as fuel unit  Fuel Blending 1FB Fuel blending	a) tank; or b) surface impoundment (i.e., 63WTa)  Equalization  LVT Equalization  Cyanide oxidation  2VT Alkaline chlorination  3VT Ozone  4VT Electrochemical  5VT Other cyanide oxidation  General oxidation (including disinfection)  6VT Chlorination  7VT Ozonation  8VT UV radiation
1RF Cement kiln 2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace 8RF Coke oven 9RF Other industrial furnace 10RF Industrial boiler 11RF Utility boiler 12RF Process heater 13RF Other reuse as fuel unit  Fuel Blending 1FB Fuel blending  Solidification 1S Cement or cement/silicate processes 2S Pozzolanic processes	a) tank; or b) surface impoundment (i.e., 63VTa)  Equalization  LVT Equalization  Cyanide oxidation  2VT Alkaline chlorination  3VT Ozone  4VT Electrochemical  5VT Other cyanide oxidation  General oxidation (including disinfection)  6VT Chlorination  7VT Ozonation  8VT UV radiation  9VT Other general oxidation  Chemical precipitation  10VT Lime
1RF Cement kiln 2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace 8RF Coke oven 9RF Other industrial furnace 1ORF Industrial boiler 11RF Utility boiler 12RF Process heater 13RF Other reuse as fuel unit  Fuel Blending 1FB Fuel blending  Solidification 1S Cement or cement/silicate processes	a) tank; or b) surface impoundment (i.e., 63WTa)  Equalization  LVT Equalization  Cyanide oxidation  2VT Alkaline chlorination  3VT Ozone  4VT Electrochemical  5VT Other cyanide oxidation  General oxidation (including disinfection)  6VT Chlorination  7VT Ozonation  8VT UV radiation  9VT Other general oxidation  Chemical precipitation  Chemical precipitation
1RF Cement kiln 2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace 8RF Coke oven 9RF Other industrial furnace 10RF Industrial boiler 11RF Utility boiler 12RF Process heater 13RF Other reuse as fuel unit  Fuel Blending 1FB Fuel blending  Solidification 1S Cement or cement/silicate processes 2S Pozzolanic processes 3S Asphaltic processes 4S Thermoplastic techniques	a) tank; or b) surface impoundment (i.e., 63WTa)  Equalization  LVT Equalization  Cyanide oxidation  2VT Alkaline chlorination  3VT Ozone  4VT Electrochemical  5VT Other cyanide oxidation  General oxidation (including disinfection)  6VT Chlorination  7VT Ozonation  8VT UV radiation  9VT Other general oxidation  Chemical precipitation  10VT Lime  11VT Sodium hydroxide
1RF Cement kiln 2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace 8RF Coke oven 9RF Other industrial furnace 10RF Industrial boiler 11RF Utility boiler 12RF Process heater 13RF Other reuse as fuel unit  Fuel Blending 1FB Fuel blending  Solidification 1S Cement or cement/silicate processes 2S Pozzolanic processes 3S Asphaltic processes 4S Thermoplastic techniques 5S Organic polymer techniques	a) tank; or b) surface impoundment (i.e., 63WTa)  Equalization  WT Equalization  Cyanide oxidation  WT Alkaline chlorination  WT Ozone  WT Electrochemical  WT Other cyanide oxidation  General oxidation (including disinfection)  WT Chlorination  WT Ozonation  WT UV radiation  Other general oxidation  Chemical precipitation  Chemical precipitation  10WT Lime  11WT Sodium hydroxide  12WT Soda ash  13WT Sulfide
1RF Cement kiln 2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace 8RF Coke oven 9RF Other industrial furnace 1ORF Industrial boiler 11RF Utility boiler 12RF Process heater 13RF Other reuse as fuel unit  Fuel Blending 1FB Fuel blending  Solidification 1S Cement or cement/silicate processes 2S Pozzolanic processes 3S Asphaltic processes 4S Thermoplastic techniques 5S Organic polymer techniques 6S Jacketing (macro-encapsulation)	a) tank; or b) surface impoundment (i.e., 63WTa)  Equalization  LVT Equalization  Cyanide oxidation  2VT Alkaline chlorination  3VT Ozone  4VT Electrochemical  5VT Other cyanide oxidation  General oxidation (including disinfection)  6VT Chlorination  7VT Ozonation  8VT UV radiation  9VT Other general oxidation  Chemical precipitation  10VT Lime  11VT Sodium hydroxide  12VT Soda ash
1RF Cement kiln 2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace 8RF Coke oven 9RF Other industrial furnace 10RF Industrial boiler 11RF Utility boiler 12RF Process heater 13RF Other reuse as fuel unit  Fuel Blending 1FB Fuel blending  Solidification 1S Cement or cement/silicate processes 2S Pozzolanic processes 3S Asphaltic processes 4S Thermoplastic techniques 5S Organic polymer techniques	a) tank; or b) surface impoundment (i.e., 63WTa)  Equalization  WT Equalization  Cyanide oxidation  WT Alkaline chlorination  WT Ozone  WT Electrochemical  WT Other cyanide oxidation  General oxidation (including disinfection)  WT Chlorination  WT Ozonation  WT UV radiation  Other general oxidation  Chemical precipitation  Chemical precipitation  10WT Lime  11WT Sodium hydroxide  12WT Soda ash  13WT Sulfide
1RF Cement kiln 2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace 8RF Coke oven 9RF Other industrial furnace 1ORF Industrial boiler 11RF Utility boiler 12RF Process heater 13RF Other reuse as fuel unit  Fuel Blending 1FB Fuel blending  Solidification 1S Cement or cement/silicate processes 2S Pozzolanic processes 3S Asphaltic processes 4S Thermoplastic techniques 5S Organic polymer techniques 6S Jacketing (macro-encapsulation)	a) tank; or b) surface impoundment (i.e., 63WTa)  Equalization  WT Equalization  Cyanide oxidation  WT Alkaline chlorination  WT Ozone  WT Electrochemical  SWT Other cyanide oxidation  General oxidation (including disinfection)  WT Chlorination  WT Ozonation  WT UV radiation  9WT Other general oxidation  Chemical precipitation  10WT Lime  11WT Sodium hydroxide  12WT Soda ash  13WT Sulfide  14WT Other chemical precipitation
1RF Cement kiln 2RF Aggregate kiln 3RF Asphalt kiln 4RF Other kiln 5RF Blast furnace 6RF Sulfur recovery furnace 7RF Smelting, melting, or refining furnace 8RF Coke oven 9RF Other industrial furnace 1ORF Industrial boiler 11RF Utility boiler 12RF Process heater 13RF Other reuse as fuel unit  Fuel Blending 1FB Fuel blending  Solidification 1S Cement or cement/silicate processes 2S Pozzolanic processes 3S Asphaltic processes 4S Thermoplastic techniques 5S Organic polymer techniques 6S Jacketing (macro-encapsulation)	a) tank; or b) surface impoundment (i.e., 63WTa)  Equalization  WT Equalization  Cyanide oxidation  WT Alkaline chlorination  WT Ozone  WT Electrochemical  WT Other cyanide oxidation  General oxidation (including disinfection)  WT Chlorination  WT Ozonation  WT UV radiation  Other general oxidation  Chemical precipitation  Chemical precipitation  10WT Lime  11WT Sodium hydroxide  12WT Soda ash  13WT Sulfide  14WT Other chemical precipitation  Chromium reduction

### EXHIBIT 8-2. (continued)

### MANAGEMENT METHODS

17WT	Ferrous sulfate
18VT	Other chromium reduction

Complexed metals treatment (other than chemical precipitation by pH adjustment) 19WT Complexed metals treatment

Emulsion breaking 20WT Thermal 21WT Chemical 22WT Other emulsion breaking

Adsorption
23WT Carbon adsorption
24WT Ion exchange
25WT Resin adsorption
26WT Other adsorption

Stripping 27WT Air stripping 28WT Steam stripping 29WT Other stripping

Evaporation
30WT Thermal
31WT Solar
32WT Vapor recompression
33WT Other evaporation

Filtration
34WT Diatomaceous earth
35WT Sand
36WT Multimedia
37WT Other filtration

Sludge dewatering
38VT Gravity thickening
39VT Vacuum filtration
40VT Pressure filtration (belt, plate
and frame, or leaf)
41VT Centrifuge
42VT Other sludge dewatering

Air flotation 43WT Dissolved air flotation 44WT Partial aeration 45WT Air dispersion 46WT Other air flotation

Oil skimming 47WT Gravity separation 48WT Coalescing plate separation 49WT Other oil skimming

Other liquid phase separation 50WT Decanting 51WT Other liquid phase separation

Biological treatment
52WT Activated sludge
53WT Fixed film-trickling filter
54WT Fixed film-rotating contactor
55WT Lagoon or basin, aerated
56WT Lagoon, facultative
57WT Anaerobic
58WT Other biological treatment

Other wastewater treatment
59WT Wet air oxidation
60WT Neutralization
61WT Nitrification
62WT Denitrification
63WT Flocculation and/or coagulation
64WT Settling (clarification)
65WT Reverse osmosis
66WT Other wastewater treatment

### OTHER WASTE TREATMENT

1TR Other treatment 2TR Other recovery for reuse

### ACCUMULATION

1A Containers 2A Tanks

### STORAGE

1ST Container (i.e., barrel, drum)
2ST Tank
3ST Waste pile
4ST Surface impoundment
5ST Other storage

### DISPOSAL

1D Landfill
2D Land treatment

3D Surface impoundment (to be closed as a landfill)

4D Underground injection well

Chemical precipitation is a treatment operation whereby the pH of a waste is adjusted to the range necessary for removal (precipitation) of contaminants. However, if the pH is adjusted solely to achieve a neutral pH, THE OPERATION SHOULD BE CONSIDERED NEUTRALIZATION (60WT).

8.22 CBI	(by capacity) incinerators that are used			sed on-site to burn the residuals identified							
[_]	, ,	Comb Ch	ustion amber ture (°C)	Locat Tempe	tion of erature nitor	Resid In Co	ence Time mbustion (seconds)				
	Incinerator	Primary	Secondary	Primary	Secondary	Primary	Secondar				
	1										
	2				<u> </u>	<b>**</b>	4/ 1/-				
	3										
	Indicate by circl	e if Office of ing the app	of Solid Wast ropriate resp	e survey has onse.	been submit	ted in lieu	of respons				
	Yes	• • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • •				
	No	* * * * * * * * * * * *		••••••	••••••	• • • • • • • • • • • • • • • • • • • •	•••••				
8.23 <u>CBI</u> []	Complete the fare used on-si treatment bloc	te to burn t	the residuals tam(s).  Air Po	identified	(by capacit in your proc	y) incinerat ess block or Types Emission	residual of				
	Incinerator		Control	Device <sup>1</sup>	<u></u>	Avail					
	1			J/A_			·				
	2			· · · · · · · · · · · · · · · · · · ·							
	3										
	Indicate if Office of Solid Waste survey has been submitted in lieu of response by circling the appropriate response.										
	Yes	• • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	· • • • • • • • • • • • • • • • • • • •	1				
			• • • • • • • • • • • • •								
	<sup>1</sup> Use the follow		o designate t								
	S = Scrubber ( E = Electrosta O = Other (spe	itic precipi	e of scrubber tator		esis)						
[_]	Mark (X) this b	oox if you a	ttach a conti	nuation shee	et.	•					

CECTION	Λ	HODEED	EXPOSURE	
SECTION	ч	WUKKEK	EXPOSURE	

_					•	_								٠				
C	٥n	0	٣.	a		- 1	n	C	٠	r	11	$\sim$	t	7	റ	ın	2	•

Questions 9.03-9.25 apply only to those processes and workers involved in manufacturing or processing the listed substance. Do not include workers involved in residual waste treatment unless they are involved in this treatment process on a regular basis (i.e., exclude maintenance workers, construction workers, etc.).

[\_\_] Mark (X) this box if you attach a continuation sheet.

### PART A EMPLOYMENT AND POTENTIAL EXPOSURE PROFILE

9.01	Mark (X) the appropriate column to indicate whether your company maintains records on the following data elements for hourly and salaried workers. Specify for each data
	the following data elements for nourly and safatiled workers. Specify for each data
	element the year in which you began maintaining records and the number of years the
CBI	records for that data element are maintained. (Refer to the instructions for further
<u> </u>	
	explanation and an example.)
r — 1	

Data Element	Hourly Workers	intained for Salaried Workers	Year in Which Data Collection Began	Number of Years Record Are Maintain
Date of hire		X	1955	3425
Age at hire	X_	X	1955	<u>34RS</u>
Work history of individual before employment at your facility		X	1955	3 y RS
Sex	X	X	1955	34R5
Race	X_	X	1955	34R
Job titles	X	<u> </u>	1953	3YR
Start date for each job title	X_	X	1955	34R
End date for each job title	X_	X	1955	34R
Work area industrial hygiene monitoring data				
Personal employee monitoring data				Accessed the State of the State
Employee medical history	X_	_X	1980	INDEF
Employee smoking history				
Accident history	X_	X	1955	INDEF
Retirement date	X_	X	1955	3 yrs
Termination date	X_		1955	3 <b>Y</b> R
Vital status of retirees				
Cause of death data				

]	a.	b.	c.	d.	e.
			Yearly	Total	Total
	Activity	Process Category	Quantity (kg)		Worker-Hour
	Manufacture of the listed substance	Enclosed			<del> </del>
	225 (25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Controlled Release	<del></del>		
		0pen			
	On-site use as	Enclosed	2159	<u> </u>	1032
	reactant	Controlled Release			
		0pen			
	On-site use as	Enclosed			
	nonreactant	Controlled Release			
		0pen			
	On-site preparation	Enclosed		· · · · · · · · · · · · · · · · · · ·	
r	of products	Controlled Release			and the second s
		0pen			
					•

9.03	Provide a descriptive pencompasses workers who listed substance.	job title for each labor category at your facility that o may potentially come in contact with or be exposed to the
CBI		
[_]		
	Labor Category	<u>Descriptive Job Title</u>
	A	URETHANE PARTS CASTING
	В	
	С	
	D	
	E	
	F	
	G	
	Н	
	I	
	J	
	Words (W) Abia ham if	u attach a continuation sheet

9.04	In accordance with the instructions, provide your process block flow diagram(s) indicate associated work areas.
BI	
	Process type URETHANE PARTS CASTING
	THE ENTIRE PROCESS IS CONTAINED IN
	THE URETHANE ROOM.

9.05 CBI	may potentially come additional areas not	work area(s) shown in question 9.04 that encompass work in contact with or be exposed to the listed substance. shown in the process block flow diagram in question 7.0 question and complete it separately for each process t	Add any 1 or
[_]	Process type	URETHANE PARTS CASTING	
	Work Area ID	Description of Work Areas and Worker Activitie	es
	1	URETHANE ROOM - MIX AND MOLD URETH	- LANE PAR
	2		
	3		
	4		
	5		
	6		
	7		
	8		•
	9		
,	10		
[_]	Mark (X) this box if y	ou attach a continuation sheet.	

 Process type	<u>UR</u>	ETHANE	PARTS	CASTIN	G	
Work area		• • • • • • • • • • • • • • • • • • • •		<u>URE</u>	THANE RO	o <sub>M</sub>
Labor Category	Number of Workers Exposed	Mode of Expost (e.g., dir skin conta	rect	Physical State of Listed Substance	Average Length of Exposure Per Day <sup>2</sup>	Number of Days per Year Exposed
A	Н	DIRECTSH	IN	O L	<b>∌</b>	86
			· · · · · · · · · · · · · · · · · · ·			· .
 the point o	lowing codes tf exposure:			cal state of		bstance at
tempe GU = Gas ( tempe inclu	rature and pre uncondensible rature and pre des fumes, vap	ssure) at ambient ssure;	AL = OL =	Aqueous liqu Organic liqu Immiscible l (specify pha	id id iquid ses, e.g.,	
SO = Solid  2 Use the fol	lowing codes t	o designate av	erage le	90% water, 1	·	
A = 15 minu B = Greater exceedi C = Greater		es, but not	D = G e E = G	reater than exceeding 4 h	2 hours, but a ours 4 hours, but a	

9.07	Weighted Average	ategory represented in question 9.06 (TWA) exposure levels and the 15-minuestion and complete it separately for	nute peak exposure levels.
CBI		6	
[_]	Process type	URETHANE PARTS C	ASTING
	Work area	<u>v</u>	RETHANE ROOM
	Labor Category	8-hour TWA Exposure Level (ppm, mg/m <sup>3</sup> , other-specify)	15-Minute Peak Exposure Level (ppm, mg/m³, other-specify)
	A	UK	UK
			· · · · · · · · · · · · · · · · · · ·
		•	
1-1	Mark (X) this how	r if you attach a continuation sheet.	_

teathing reathing rk area es atches les tes r samples	Work Area ID  N/A	Testing Frequency (per year)		Who	Analyzed In-House (Y/N)	Number of Years Record Maintained
reathing rk area es atches les les		Frequency	Samples	Who	In-House	Years Record
rk area es atches les les v samples						
es atches les les y samples						
atches les les v samples						
les les v samples						
les v samples						
samples						
-						
sts						
eify)				-		
eify)						
eify)					·	
industrial nce carrie	hygienis r	st	o takes the	monitorin	g samples:	
i	lowing co ndustrial ce carrie	lowing codes to d ndustrial hygieni ce carrier nsultant	lowing codes to designate wh ndustrial hygienist ce carrier	lowing codes to designate who takes the ndustrial hygienist ce carrier nsultant	lowing codes to designate who takes the monitorin ndustrial hygienist ce carrier nsultant	lowing codes to designate who takes the monitoring samples: ndustrial hygienist ce carrier nsultant

[_]	Sample Type  N/A	<u>S</u> :	ampling and Analyt	ical Methodolo	ogy
9.10	If you conduct person specify the following				ubstance,
CBI	Equipment Type <sup>1</sup>	Detection Limit <sup>2</sup>	-	Averaging Time (hr)	Model Number
				_	
	<sup>1</sup> Use the following c A = Passive dosimet B = Detector tube C = Charcoal filtra D = Other (specify)	er	ersonal air monito		
	Use the following c  E = Stationary moni F = Stationary moni G = Stationary moni H = Mobile monitori I = Other (specify)	tors located within tors located within tors located at pla ng equipment (speci	work area facility nt boundary		types:
	<sup>2</sup> Use the following c A = ppm B = Fibers/cubic ce C = Micrograms/cubi	odes to designate d	etection limit uni	ts:	

_] _	Test Description		(weekly, m	Frequency on thly, yea	rly, etc.)
_	N/A		***************************************		
		······································			
		**************************************	<del></del>		
					,
					·
•					
					•
					-
			÷		
			•		

. 2	Describe the engineering co to the listed substance. P process type and work area.	hotocopy this			
[]	Process type	· URETHA	NE PARTS	CASTING	
	Work area	•••••	• • • • • • • • • • • • • • • • • • • •	URETHANE	ROOM
	Engineering Controls	Used (Y/N)	Year Installed	Upgraded (Y/N)	Year Upgrade
	Ventilation:				
	Local exhaust	<del>/</del>	1984	N	N/A
	General dilution				***************************************
	Other (specify)				
	Vessel emission controls		1984	<i>N</i>	N/A
	Mechanical loading or packaging equipment		1984	N	N/I
	Other (specify)				

	Process type <u>URETHANE PARTS (AS</u>		Ross
	Work area	Reduction in	
,	Equipment or Process Modification	Exposure Per	Year (
	AUTOMATED MIXER	80	%
	·		
		·	

9.14	in each work area	onal protective and safety equing in order to reduce or eliminate copy this question and complete	te their exposur	e to the listed	
CBI		_	_		
[_]		URETHANE PARTS			
	Work area			URETHANE	Ko
			Wear or		
		Equipment Types	Use (Y/N)	•	
		Respirators	#Y		
		Safety goggles/glasses	<u></u>		
		Face shields	<u> </u>		
		Coveralls	<u> </u>		•
		Bib aprons	<u> </u>	€.	
•		Chemical-resistant gloves	<u> </u>		
		Other (specify)			
				•	

9.15	process respira tested,	ers use respirators we type, the work areas tors used, the average and the type and free it separately for each	where the respirat e usage, whether or quency of the fit t	ors are us	ed, the type espirators w	of ere fit
CBI	Process	type <u>υ</u> <i>υ</i> <u>υ</u> <i>κ</i> ε	GENANG Page	· Car		
l1	Work	Respirator	Average	Fit Tested	Type of	Frequency of
	<u>Area</u> /	DISPOSABLE NEG. PARTIC	Usage*  USS, A  ULATE	<u>(Y/N)</u>	Fit Test <sup>2</sup> N/A	(per year)
						<del></del>
	E = 0t  2 Use the	ekly nthly ce a year her (specify) e following codes to	designate the type	of fit tes	it:	
		ualitative uantitative		·.		
				· · · · · · · · · · · · · · · · · · ·	٠.	
				٠.		

9.19	THE COTTON ALL OF THE WORK D	rections and -d-	dnietretive e	ontrole used	to reduce or	
	eliminate worker exposure authorized workers, mark a monitoring practices, prov	reas with warning ide worker train	ubstance (e.g. ng signs, insu ning programs,	, restrict en re worker det etc.). Phot	trance only to ection and ocopy this	
<u>BI</u>	question and complete it separately for each process type and work area.  Process type URETHANE PARTS CASTING					
<u>_</u> ]						
	Work area		• • • • • • • • • • •	·· URETHA	NE ROOM	
	AREA IS RESTRICTE	ED TO AUTHOR	RIZED PE	RSONNEL	ONLY.	
	AREA IS MARKED	WITH WAR	INING SI	GNS		
	ANNUAL WORKER	_			S COMPLET	
.20	Indicate (X) how often you perform each housekeeping task used to clean up routine leaks or spills of the listed substance. Photocopy this question and complete it separately for each process type and work area.  Process type URETHANE PARTS CASTING					
	Work area				Room	
	Housekeeping Tasks	Less Than Once Per Day	1-2 Times Per Day	3-4 Times Per Day	More Than 4 Times Per Day	
	Sweeping	approximate and the little in				
	Vacuuming				******	
	Water flushing of floors		_X_			
	Other (specify)					
	Other (specify)					
	Other (specify)		<del></del>			
	Other (specify)					
	Other (specify)					
	Other (specify)					

9/21	Do you have a written medical action plan for responding to routine or emergency exposure to the listed substance?
	Routine exposure
	Yes 1
	No 2
	Emergency exposure
	Yes 1
	No 2
	If yes, where are copies of the plan maintained?
	Routine exposure:
	Emergency exposure:
9.22	Do you have a written leak and spill cleanup plan that addresses the listed substance? Circle the appropriate response.  Yes
	No 2
	If yes, where are copies of the plan maintained? ENVIRON MENTAL COORDINATOR'S
	Has this plan been coordinated with state or local government response organizations? Circle the appropriate response.
	Yes
	No 2
9,23	Who is responsible for monitoring worker safety at your facility? Circle the appropriate response.
	Plant safety specialist 1
	Insurance carrier 2
	OSHA consultant 3
	Other (specify) 4
[_]	Mark (X) this box if you attach a continuation sheet.

### SECTION 10 ENVIRONMENTAL RELEASE

### General Instructions:

Complete Part E (questions 10.23-10.35) for each non-routine release involving the listed substance that occurred during the reporting year. Report on all releases that are equal to or greater than the listed substance's reportable quantity value, RQ, unless the release is federally permitted as defined in 42 U.S.C. 9601, or is specifically excluded under the definition of release as defined in 40 CFR 302.3(22). Reportable quantities are codified in 40 CFR Part 302. If the listed substance is not a hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and, thus, does not have an RQ, then report releases that exceed 2,270 kg. If such a substance however, is designated as a CERCLA hazardous substance, then report those releases that are equal to or greater than the RQ. The facility may have answered these questions or similar questions under the Agency's Accidental Release Information Program and may already have this information readily available. Assign a number to each release and use this number throughout this part to identify the release. Releases over more than a 24-hour period are not single releases, i.e., the release of a chemical substance equal to or greater than an RQ must be reported as a separate release for each 24-hour period the release exceeds the RQ.

For questions 10.25-10.35, answer the questions for each release identified in question 10.23. Photocopy these questions and complete them separately for each release.

PART A	A GENERAL INFORMATION
10.01	Where is your facility located? Circle all appropriate responses.
<u>CBI</u>	
[_]	Industrial area
	Urban area 2
	Residential area
	Agricultural area 4
	Rural area 5
	Adjacent to a park or a recreational area
	Within 1 mile of a navigable waterway
	Within 1 mile of a school, university, hospital, or nursing home facility 8
	Within 1 mile of a non-navigable waterway 9
	Other (specify)10
	Mark (X) this box if you attach a continuation sheet.

	Specify the exact location of your is located) in terms of latitude a (UTM) coordinates.		ral point where versal Transvers				
	Latitude		<u>40 ° 4</u>	1, 48			
	Longitude		111 ° 5	4 ' 30			
	UTM coordinates Zone	, Northi	ng, Ea	sting			
10.03	If you monitor meteorological cond the following information.	itions in the vicini	ty of your faci	lity, provide			
	Average annual precipitation inches/year						
	Predominant wind direction						
<del></del>							
10.04	Indicate the depth to groundwater below your facility.						
	Depth to groundwater	· · · · · · · · · · · · · · · · · · ·		meters			
10.05 <u>CBI</u>	For each on-site activity listed, listed substance to the environmenty, N, and NA.)						
[_]				*			
·—·			ronmental Releas				
	On-Site Activity	Air	Water	Land			
··	On-Site Activity Manufacturing	N/A	Water N/A	Land N/A			
· <u> </u>	•	N/A	Water	Land			
·—·	Manufacturing .	N/A	Water N/A	Land N/A			
·—·	Manufacturing Importing	N/A	Water N/A	Land N/A			
·	Manufacturing Importing Processing		Water N/A	N/A N/A			
·—·	Manufacturing Importing Processing Otherwise used	N/A   N/A		N/A N/A N/A			
·	Manufacturing Importing Processing Otherwise used Product or residual storage	N/A   N/A		N/A N/A N/A N/A N/A			
	Manufacturing Importing Processing Otherwise used Product or residual storage Disposal	N/A   N/A	Water	N/A N/A N/A N/A N/A N/A N/A			
	Manufacturing Importing Processing Otherwise used Product or residual storage Disposal	N/A   N/A	Water	N/A N/A N/A N/A N/A N/A			
	Manufacturing Importing Processing Otherwise used Product or residual storage Disposal	N/A   N/A	Water	Land  N/A  N/A  N/A  N/A  N/A			

80. <u>I</u>	for each process stream of process block or residual and complete it separatel	nnologies used to minimize release of containing the listed substance as ide l treatment block flow diagram(s). Ph ly for each process type.	ntified in your
_]	Process type URE	ETHANE PARTS CASTING	
	Stream ID Code	Control Technology	Percent Efficienc
	7A	NONE	
			, .
			CLASS CONTRACTOR CONTR
			·
		•	•

10.09 <u>CBI</u> []	substance in residual tro source. Do sources (e.g for each pro	n terms of a Seatment block not include rg., equipment ocess type.	Identify each emission point source containing the listed stream ID Code as identified in your process block or flow diagram(s), and provide a description of each point aw material and product storage vents, or fugitive emission leaks). Photocopy this question and complete it separately
	Process type	≥ <u>UR</u>	ETHANE PARTS CASTING
	Point Source ID Code		Description of Emission Point Source
	N/A		
			<u> </u>
•			

Mark (X)

this

Point Source ID Code	Physical State	Average Emissions (kg/day)	Frequency <sup>2</sup> (days/yr)	Duration <sup>3</sup> (min/day)	Average Emission Factor	Maximum Emission Rate (kg/min)	Maximum Emission Rate Frequency (events/yr)	Max Emi R Dur (min
						<del></del>		
								<del></del>
					-		-	
								***
G = Ga	s; v = vapo	r; P = Partic	ignate physica ulate; A = Aer evel of emissi	cosol; 0 = 0th	e point of reer (specify)	lease:		

1	Point Source ID Code	Stack Height(m)	Stack Inner Diameter (at outlet) (m)	Exhaust Temperature (°C)	Emission Exit Velocity (m/sec)	Building Height(m)	Building Width(m) <sup>2</sup>	Ver Typ
	_N/A_				***************************************		<del></del> .	
						***		<del></del>
	<del></del>							
							-	***************************************
	·	- <del></del>						
						4		
	* · · · · · · · · · · · · · · · · · · ·							
,							•	<u> </u>
	1 Woight o	f attached	or adjacent					
			or adjacent b			•		
			~	ignate vent 1	:ype:			
	H = Hori	zontal						
	V = Vert	ical						
				,				

10.12 <u>CBI</u>	distribution for each Point Source	in particulate form, indicate the particle size ID Code identified in question 10.09. The it separately for each emission point source
]	Point source ID code	
	Size Range (microns)	Mass Fraction (% $\pm$ % precision)
	< 1	
	≥ 1 to < 10	
	≥ 10 to < 30	
	≥ 30 to < 50	
	≥ 50 to < 100	
	≥ 100 to < 500	
	≥ 500	
		Total = 100%
		,

PART (	C FUGITIVE EMISSIONS					· · · · · · · · · · · · · · · · · · ·	
10.13 CBI	Equipment Leaks Complet types listed which are exp according to the specified the component. Do this fo residual treatment block f not exposed to the listed process, give an overall p exposed to the listed subs for each process type.	osed to the l weight perces r each proces low diagram(s substance. I ercentage of	isted sunt of the stype in this in time per	bstance a e listed dentified ot includ s a batch year tha	nd which substance in your e equipme or inter t the pro	are in se passing process b nt types mittently cess type	rvice through lock or that are operated is
[_]	Process type						
	Percentage of time per year						
	•	Number	of Compos of Lister	nents in . d Substan	Service by	y Weight cess Stre	Percent am
	Equipment Type	Less than 5%			26-75%		Greater than 99%
	Pump seals <sup>1</sup>		•				
	Packed						
	Mechanical	-					<u> </u>
	Double mechanical <sup>2</sup>		***************************************			<del></del>	•
,	Compressor seals <sup>1</sup>						
	Flanges						
	Valves						
	Gas <sup>3</sup>						
	Liquid						
	Pressure relief devices <sup>4</sup> (Gas or vapor only)						
	Sample connections						
	Gas					<u> </u>	
	Liquid						
	Open-ended lines <sup>5</sup> (e.g., purge, vent)						
	Gas						
	Liquid						
	<sup>1</sup> List the number of pump an compressors	d compressor	seals, r	ather tha	in the num	ber of pu	imps or
10.13	continued on next page						

10.13	(continued)			
	<sup>2</sup> If double mechanical seal greater than the pump stu will detect failure of th with a "B" and/or an "S",	offing box pressure a ne seal system, the b	and/or equipped wi	th a sensor (S) that
	<sup>3</sup> Conditions existing in th	e valve during norma	al operation	·
	<sup>4</sup> Report all pressure relie control devices	ef devices in service	e, including those	equipped with
	<sup>5</sup> Lines closed during norma operations	al operation that wou	ıld be used during	maintenance
10.14 <u>CBI</u>	Pressure Relief Devices wi pressure relief devices id devices in service are con enter "None" under column	entified in 10.13 to trolled. If a press	indicate which p	ressure relief
	a. Number of Pressure Relief Devices	b. Percent Chemical in Vessel	Control Device	d. Estimated Control Efficiency <sup>2</sup>
	Refer to the table in ques heading entitled "Number of Substance" (e.g., <5%, 5-10)	f Components in Serv	d the percent rang	ge given under the ent of Listed
	<sup>2</sup> The EPA assigns a control of with rupture discs under not efficiency of 98 percent for conditions	ormal operating cond	itions. The EPA a	ssigns a control
[_]	Mark (X) this box if you at	tach a continuation	sheet.	

10.15 CBI	Equipment Leak Detec place, complete the procedures. Photocotype.	following table rep	garding tho:	se leak det	ection and r	epair
[_]	Process type	• • • • • • • • • • • • • • • • • • • •				
* <del></del>		Leak Detection Concentration (ppm or mg/m³) Measured at Inches	- Detection	Frequency of Leak Detection	Repairs Initiated (days after	Repairs Completed (days after
	Equipment Type	from Source	_Device <sup>1</sup>		<u>detection</u> )	
	Pump seals Packed Mechanical Double mechanical					
	Compressor seals					
	Flanges			***************************************	***************************************	<del> </del>
	Valves					
	Gas		<del></del>			
	Liquid					
,	Pressure relief devices (gas or vapor only)					
	Sample connections					
	Gas					
	Liquid					
	Open-ended lines					
	Gas		**************************************			
	Liquid				The state of the s	****
	<sup>1</sup> Use the following co POVA = Portable orga FPM = Fixed point mo O = Other (specify)	anic vapor analyzer onitoring	letection de	evice:		
[_]	Mark (X) this box if y	ou attach a contin	uation shee	et.		

Mark	CBI	OL ICS	Iddai (IC	atment block	TION GIGGIGA	(3).				Operat-	_				
(X) this		Vessel Type		Composition of Stored Materials <sup>3</sup>	Throughput (liters per year)	Vessel Filling Rate (gpm)	Vessel Filling Duration _(min)	Vessel Inner Diameter (m)		Volume	Vessel Emission Controls	Design Flow Rate		Control Efficiency (%)	Bas fo Estin
box if yo															
you attach						-									
a continua															
		<sup>1</sup> Use 1	the follow	ring codes to	designate v	essel typ	œ:	²Use	the fo	ollowing	codes to	designa	ite floati	ng roof seal	s:
ion sheet.		F CIF NCIF	= Fixed r = Contact = Noncont = Externa	roof internal fluct internal il floating revessel (internal	oating roof floating ro	of		MS2 MS2 LM1 LM2 LM3 VM1 VM2	2 = Sho 2R = Rin 1 = Lio 2 = Rin V = Vez 1 = Vat 2 = Rin	oe-mount n-mounte quid-mou n-mounte ather sh por moun	ted resil: ed secondar	ary ary lient fi ient fil			
		<sup>3</sup> Indi	cate weigt	nt percent of	the listed	substanc	e. Includ	e the tota	al vola	tile org	ganic cont	ent in p	parenthesi	S	
		<sup>4</sup> 0the	r than flo	oating roofs	•										
		5Gas/	vapor flow	v rate the en	ission contr	ol devic	e was desi	gned to ha	andle (	specify	flow rate	units)			
		<sup>6</sup> Use	the follow	ving codes to	designate b	asis for	estimate	of contro	l effic	iency:					
			Calculation Sampling	ons											

	Release		ate arted	Time (am/pm)	Date Stopped	Time _(am/pm)
	1		The section of the se		<u></u>	
	2					
	3					
	4					·
	5					
	6				Americal and the control of the cont	
10.24	Specify t	he weather con Wind Speed (km/hr)	ditions at the Wind Direction	time of each r  Humidity  (%)	Temperature (°C)	Precipitation (Y/N)
10.24		Wind Speed	Wind	Humidity	Temperature	
10.24		Wind Speed	Wind	Humidity	Temperature	
10.24	Release	Wind Speed	Wind	Humidity	Temperature	
10.24	Release	Wind Speed	Wind	Humidity	Temperature	
10.24	<u>Release</u> 12	Wind Speed	Wind	Humidity	Temperature (°C)	Precipitation (Y/N)
10.24	Release123	Wind Speed	Wind	Humidity	Temperature (°C)	
10.24	Release	Wind Speed	Wind	Humidity	Temperature (°C)	

 $[\ \ ]$  Mark (X) this box if you attach a continuation sheet.